

WHAT IS CLAIMED IS:

1. A storage control apparatus comprising:  
a data I/O control unit which has a plurality of communication ports that can be communicatively connected with any of a plurality of information processing apparatuses, is communicatively connected to a plurality of physical disk drives for storing data, receives a data I/O request for data stored in the physical disk drives from the information processing apparatuses via the communication ports, and performs data read/write from/to the physical disk drives in accordance with the received data I/O request;

a first memory storing a data which is read/written among the data stored in the physical disk drives; and

a second memory storing information on management of storage resources including the communication ports, the physical disk drives, and a storage capacity of the first memory allocated for each user using the information processing apparatuses;

wherein in response to reception of a transmission request of the information on management of the storage resource from a user via a user interface, an identifier of the communication port, an identifier of the physical disk drive, and a storage capacity of the first memory which have been allocated for said user are transmitted to said user interface.

2. A storage control apparatus as claimed in

claim 1, wherein said information on management of the storage resources includes:

information representing a first correlation between the physical disk drive and a data amount which can be stored in the first memory among the data stored in the physical disk drive, and

information representing a second correlation between the first correlation and the communication port.

3. A storage control apparatus as claimed in claim 1, wherein said physical disk drives include of a plurality of hard disk drives constituting an RAID.

4. A method for controlling a storage control apparatus comprising a data I/O control unit which has a plurality of communication ports that can be communicatively connected with any of a plurality of information processing apparatuses, is communicatively connected to a plurality of physical disk drives for storing data, receives a data I/O request for data stored in the physical disk drives from the information processing apparatuses via the communication ports, and performs data read/write from/to the physical disk drives in accordance with the received data I/O request a first memory storing a data which is read/written among the data stored in the physical disk drives; and a second memory storing information on management of storage resources including the communication ports, the physical disk drives, and a storage capacity of the

first memory allocated for each user using the information processing apparatuses;

said method comprising the steps of:

receiving a transmission request of the information on management of the storage resource from a user via a user interface; and

in response to said receiving step, transmitting an identifier of the communication port, an identifier of the physical disk drive, and a storage capacity of the first memory which have been allocated for said user to said user interface.

5. A method for controlling a storage control apparatus as claimed in claim 4, wherein said information on management of the storage resources includes information representing a first correlation between the physical disk drive and a data amount which can be stored in the first memory among the data stored in the physical disk drive, and information representing a second correlation between the first correlation and the communication port.

6. A method for controlling a storage control apparatus as claimed in claim 4, wherein said physical disk drives include a plurality of hard disk drives constituting an RAID.

7. A storage control apparatus comprising:  
a channel control unit which has a plurality of communication ports that can be communicatively connected with any of a plurality of information

processing apparatuses and receives a data I/O request for data stored in physical disk drives including a plurality of hard disk drives constituting an RAID;

a disk control unit which is communicatively connected to the physical disk drives and performs data read/write from/to the physical disk drives according to the data I/O request;

a first memory storing a data which is read/written among the data stored in the physical disk drives; and

a second memory storing information on management of storage resources including the communication ports, the physical disk drives, and a storage capacity of the first memory allocated for each user using the information processing apparatuses;

wherein in response to reception of a transmission request of the information on management of the storage resource from a user via a user interface, an identifier of the communication port, an identifier of the physical disk drive, and a storage capacity of the first memory which have been allocated for said user are transmitted to said user interface.